

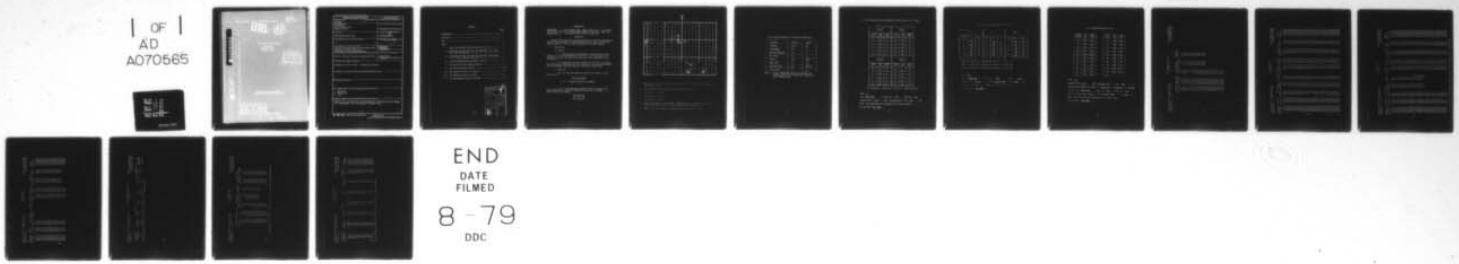
AD-A070 565 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
19304D GSRS, MISSILE NUMBER 1021, ROUND NO. V-24.(U)
APR 79

UNCLASSIFIED

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METEOROLOGICAL DATA REPORT

19304D GSRS
Missile No. 1021
Round No. V-24

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G

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER <i>DR-1005</i>	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19304D GSRS Missile Number 1021 Round No. V-24	5. TYPE OF REPORT & PERIOD COVERED	
7. AUTHOR(s) WSMR Meteorological Team	6. PERFORMING ORG. REPORT NUMBER <i>16 1T6657-2D126-02</i>	
9. PERFORMING ORGANIZATION NAME AND ADDRESS <i>9 Meteorological data reported</i>	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS <i>11 12/16p.</i>	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Comd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico	12. REPORT DATE <i>April 1979</i>	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Comd	13. NUMBER OF PAGES	
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19304D GSRS, Missile Number 1021, Round Number V-24, are presented in tabular form.		

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Accession For	
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DDC TAB	
Unannounced	
Justification _____	
By _____	
Distribution/ _____	
Availability Codes	
Dist	Available and/or special

INTRODUCTION

19304D GSRS, Missile Number 1021, Round Number V-24, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1603 MST, 24 April 1979. The scheduled launch time was 1600 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

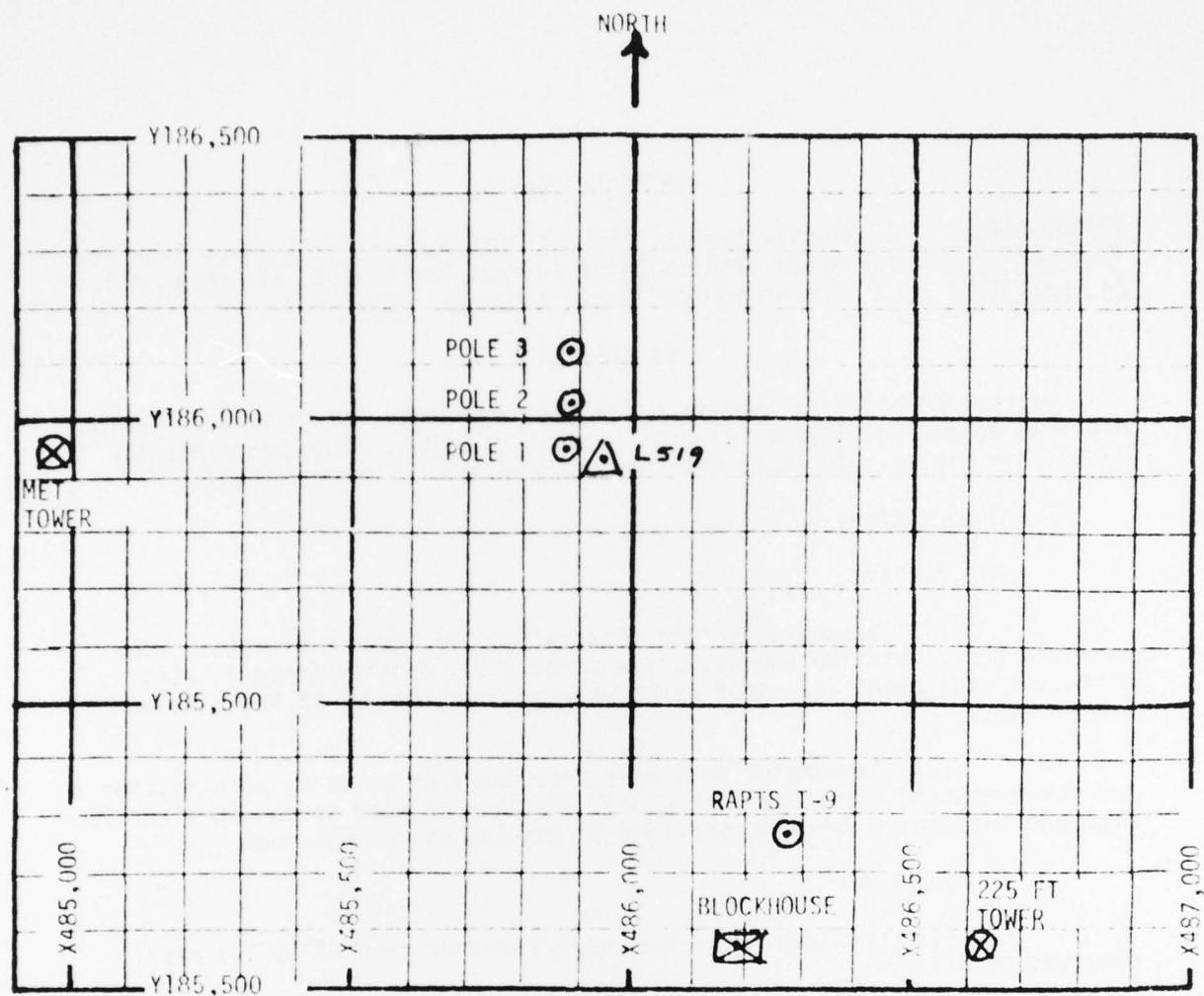
SITE AND ALTITUDE

LC-33 1 kilometer (50-meter increments)

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 53.500 feet in 500-feet increments.

SITE AND TIME

SMR 1530 MST



1. MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. 225 FT WIND TOWER - 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977.30	FT/MSL
PRESSURE	873.6	MBS
TEMPERATURE	28.2	°C
RELATIVE HUMIDITY	26	%
DEW POINT	6.6	°C
DENSITY	1004	GM/M ³
WIND SPEED	10	MPH
WIND DIRECTION	260	DEGREES
CLOUD COVER	2	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT 1605 LOCAL TIME.
24 APRIL 1979 at LC-33. 19304D GSRS, MISSILE NO.
102., ROUND NO. V-24.

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1 12 ft			LEVEL #2 62 ft		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	225	13	-30	220	15
-20	230	14	-20	225	12
-10	250	12	-10	235	12
0.0	250	12	0.0	245	12
+10	270	13	+10	240	12
LEVEL #3 102 ft			LEVEL #4 202 ft		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	228	17	-30	240	14
-20	240	17	-20	227	18
-10	250	17	-10	229	20
0.0	252	14	0.0	237	17
+10	240	15	+10	234	14

WTSM COORDINATES: X484, 182.64 Y185, 957.73 H3983.00 (base)

TABLE II

TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24
 LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 MST
 NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH
 OR TRUE NORTH TRUE NORTH

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	245	16	-30	265	15	-30	235	22
-20	242	12	-20	264	11	-20	235	22
-10	246	15	-10	257	13	-10	233	20
0.0	250	15	0.0	265	12	0.0	235	21
+10	257	10	+10	275	11	+10	250	16

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

TABLE III

TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24
 LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 LST
 NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH
 OR TRUE NORTH TRUE NORTH.

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIR DEG	SPEED MPH
SUR	260	10.0
50	255	10.0
100	255	12.0
150	248	15.0
200	255	28.0
250	264	25.9
300	261	24.0
350	261	25.0
400	261	24.0
450	263	27.0
500	264	24.6

HEIGHT METERS	DIR DEG	SPEED MPH
550	264	28.6
600	255	30.0
650	258	27.0
700	257	25.0
750	257	25.5
800	262	25.0
850	262	26.0
900	268	27.0
950	265	24.0
1000	265	29.3
1050		

TABLE IV

RELEASED FROM LC-33 DATE 24 April 1979 TIME 1603 LST

RELEASE POINT COORDINATES (WSTM) X = 486,037.24 Y = 182,350.16 H = 3977.30

MISSILE TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24

MISSILE LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 LST

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH TRUE NORTH

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS EST
ASCENSION NO. 73

SIGNIFICANT LEVEL DATA
1140060073
S M R .

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT
672.9	3997.3	29.0	-5.7
663.5	4511.3	27.6	4
650.0	4767.3	25.4	17.0
630.0	5450.6	23.4	18.0
770.6	7543.4	17.0	-1.0
790.0	10202.0	9.3	19.0
659.6	11637.7	4.0	-6.0
606.2	14036.6	-1.0	21.0
561.0	15145.3	-2.5	-12.0
524.6	17707.3	-6.8	-26.0
500.0	19012.6	-10.0	-26.0
456.0	21342.2	-16.0	-30.0
420.6	23340.8	-19.7	-31.0
400.0	24530.3	-22.8	-30.0
357.2	26571.7	-28.6	-32.0
342.0	28234.5	-32.6	-42.0
300.0	31221.5	-40.9	-50.1
250.0	35214.4	-51.3	-50.0
200.0	39879.7	-59.8	-49.0
185.2	41406.3	-63.6	-68.0
154.2	43847.1	-64.7	-37.0
156.4	44578.3	-67.0	-
150.0	45721.6	-64.7	-
141.4	46904.5	-66.7	-
130.6	48493.1	-65.6	-
123.6	49605.0	-62.8	-
116.8	50752.2	-63.6	-
106.6	52513.0	-61.0	-
103.2	53275.9	-62.1	-
100.0	53918.9	-61.7	-

STATION ALTITUDE 3497.30 FEET MSL
24 APR. 79
1530 HRS MST
ASCENSION NO. 73

UPPER AIR DATA
114000073
S M R

GEODETIC COORDINATES
32°48.034 LAT DEG
106°42.307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TD)	INDEX OF REFRACTION
3997.3	672.9	29.0	-5.7	10.0	1004.7	677.8	250.0	15.0
4000.0	672.8	29.0	-5.6	10.1	1004.6	677.8	250.0	15.0
4500.0	657.9	26.7	-0.0	17.4	924.1	675.5	270.8	18.2
5000.0	643.1	24.7	-9.9	18.3	923.5	675.2	274.6	21.4
5500.0	629.6	23.2	-1.6	19.0	974.4	674.5	273.0	24.6
6000.0	614.0	21.7	-2.9	19.0	959.5	669.7	271.7	27.9
6500.0	799.8	20.2	-4.1	19.0	947.8	667.9	270.6	26.3
7000.0	785.3	18.7	-5.4	19.0	935.2	665.2	269.3	23.6
7500.0	772.9	17.1	-6.6	19.0	924.6	664.4	267.7	20.9
8000.0	755.2	15.7	-7.6	19.3	912.9	662.7	265.7	18.9
8500.0	744.5	14.2	-8.6	19.7	901.1	661.0	263.4	17.6
9000.0	731.2	12.5	-9.5	20.1	889.5	659.3	260.8	16.4
9500.0	716.0	11.3	-10.5	20.5	878.0	657.6	257.7	15.1
10000.0	705.1	9.9	-11.5	20.8	860.7	655.9	255.4	14.9
10500.0	692.3	8.3	-12.1	22.1	855.7	654.0	253.3	15.1
11000.0	679.6	6.7	-12.4	23.9	844.8	652.2	251.3	15.3
11500.0	667.1	5.1	-12.9	25.8	834.2	650.5	249.6	15.6
12000.0	654.8	3.6	-13.5	27.3	823.3	648.5	249.3	16.2
12500.0	642.5	2.2	-14.3	28.2	811.8	646.9	248.8	16.8
13000.0	630.5	0.9	-15.1	29.1	800.6	645.3	245.3	18.3
13500.0	618.6	-5.5	-15.9	30.0	789.5	643.7	247.8	19.9
14000.0	601.0	-1.6	-16.7	30.9	775.5	642.1	246.5	21.9
14500.0	595.5	-2.2	-17.3	30.9	764.6	641.6	245.6	24.2
15000.0	584.2	-2.4	-19.0	26.7	751.1	641.1	250.4	26.1
15500.0	575.1	-3.1	-20.2	25.1	736.0	640.5	250.5	26.1
16000.0	562.1	-3.9	-21.6	23.7	726.7	632.5	250.5	26.2
16500.0	551.4	-4.7	-22.9	22.4	715.0	635.5	252.5	26.9
17000.0	540.8	-5.5	-24.3	21.1	703.5	637.5	254.7	27.5
17500.0	530.5	-6.3	-25.7	19.6	694.2	635.5	250.1	26.1
18000.0	520.2	-7.4	-26.4	20.0	681.5	635.7	261.3	29.7
18500.0	510.1	-8.7	-26.2	22.5	671.5	635.7	264.0	30.5
19000.0	500.2	-10.0	-26.2	24.9	651.0	632.4	267.7	31.4
19500.0	490.4	-11.3	-27.1	25.4	652.0	630.6	270.6	33.6
20000.0	480.7	-12.6	-28.1	25.9	642.3	629.0	273.5	36.0
20500.0	471.2	-13.9	-29.0	26.5	632.8	627.5	275.2	37.9
21000.0	461.9	-15.2	-30.0	26.7	623.5	625.9	276.7	39.8
21500.0	452.7	-16.3	-30.7	27.5	615.9	624.4	277.9	43.7
22000.0	443.6	-17.3	-31.0	29.0	605.7	622.5	278.8	48.1
22500.0	434.7	-18.2	-31.3	30.6	595.7	622.4	279.2	47.1
23000.0	425.9	-19.1	-31.0	32.1	585.9	621.0	274.1	45.6

STATION ALTITUDE 3497.30 FEET MSL
24 APR. 79 1530 HRS NST
ASCENSION I.O. 73

UPPER AIR DATA
111400Z0075
S W R

GEODETIC COORDINATES
32°48'03" LAT DEG
106°42'30" LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION	
23500.0	417.3	-20.2	-31.5	35.5	574.5	619.7	272.6	42.8
24000.0	408.8	-21.5	-30.9	42.0	565.0	618.2	272.8	43.5
24500.0	400.5	-22.7	-30.5	48.5	556.9	615.9	274.1	46.4
25000.0	392.2	-24.1	-30.9	53.4	548.4	614.9	273.9	48.7
25500.0	384.1	-25.6	-31.3	56.0	540.2	613.1	273.1	50.7
26000.0	376.1	-27.0	-31.9	62.7	522.0	611.4	274.2	50.7
26500.0	368.3	-28.4	-32.5	67.3	524.0	609.6	276.2	49.7
27000.0	360.5	-29.6	-34.9	60.0	525.6	605.0	279.7	48.8
27500.0	352.9	-30.8	-37.7	59.7	507.2	606.5	285.6	48.2
28000.0	345.4	-32.0	-40.7	41.4	499.0	605.0	289.6	48.2
28500.0	338.0	-33.3	-43.1	36.9	491.0	603.3	289.4	48.7
29000.0	330.7	-34.7	-44.3	36.7	483.1	604.0	289.3	49.8
29500.0	323.5	-36.1	-45.6	36.6	475.4	599.8	289.2	51.4
30000.0	316.5	-37.5	-46.9	36.4	467.9	598.1	290.2	54.1
30500.0	309.6	-38.9	-43.2	36.2	460.4	590.3	291.3	56.9
31000.0	302.9	-40.3	-42.5	36.1	453.1	594.5	290.2	57.9
31500.0	296.2	-41.6	-51.3	33.5**	445.7	592.5	288.8	58.6
32000.0	289.5	-42.9	-53.7	29.0**	433.1	591.1	288.7	60.0
32500.0	283.0	-44.2	-56.2	24.5**	430.0	589.4	288.8	61.5
33000.0	275.6	-45.5	-59.0	20.0**	423.3	557.8	290.3	63.2
33500.0	270.4	-46.8	-62.0	15.5**	410.1	580.1	291.6	64.8
34000.0	264.3	-48.1	-65.7	19.9**	429.1	584.4	293.6	56.0
34500.0	258.3	-49.4	-70.4	6.4**	462.2	582.7	294.9	67.3
35000.0	252.5	-50.7	-79.2	1.9**	359.4	581.0	295.9	68.6
35500.0	246.6	-51.8			363.2	579.0	297.2	72.2
36000.0	240.9	-52.7			369.6	578.4	298.5	76.6
36500.0	235.2	-53.6			373.2	577.2	299.9	81.4
37000.0	229.6	-54.5			369.9	576.0	301.1	86.3
37500.0	224.2	-55.4			356.6	574.0	301.8	91.0
38000.0	218.9	-56.4			351.6	573.6	302.4	95.7
38500.0	213.3	-57.3			345.0	572.4	302.5	99.6
39000.0	208.8	-58.2			338.3	571.2	302.6	103.4
39500.0	203.6	-59.1			331.7	570.0	302.1	104.5
40000.0	199.0	-60.0			325.3	568.7	303.8	104.7
40500.0	194.2	-61.3			319.3	567.1	304.2	104.3
41000.0	189.5	-62.5			313.3	565.5	304.7	103.1
41500.0	184.9	-63.6			307.4	563.9	303.7	103.9
42000.0	180.4	-63.8			302.1	562.5	305.7	100.7
42500.0	176.0	-64.1			293.2	560.5	300.5	110.0
43000.0	171.7	-64.3			268.4	563.0	299.4	112.1

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
 24 APR. 79 1530 HRS MST
 ASCENSION NO. 73

UPPER AIR DATA
 1140060073
 S A R

GEODETIC COORDINATES
 32°46.034 LAT DEG
 106.42307 LON DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	GEOPOTENTIAL HEIGHT POINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED FT/SEC	WIND DIRECTION DEGREES (T)	INDEX OF REFRACTION
43500.0	167.5	-64.5	279.6	562.7	299.4	109.5	1.000062	
44000.0	163.4	-64.6	272.9	562.6	299.6	105.0	1.000061	
44500.0	159.4	-64.1	265.6	563.2	300.4	94.6	1.000059	
45000.0	155.5	-63.9	258.9	563.5	301.4	84.4	1.000058	
45500.0	151.7	-64.5	253.2	562.3	301.6	75.1	1.000056	
46000.0	147.9	-65.2	247.8	561.6	301.6	67.8	1.000055	
46500.0	144.3	-66.0	242.7	560.7	300.5	65.3	1.000054	
47000.0	140.7	-66.6	237.4	559.9	298.6	62.9	1.000053	
47500.0	137.3	-66.3	231.1	560.3	297.0	60.5	1.000051	
48000.0	133.9	-65.9	225.0	560.9	295.4	58.2	1.000050	
48500.0	130.6	-65.6	219.1	561.3	292.9	54.6	1.000049	
49000.0	127.4	-64.3	212.5	561.4	290.0	50.9	1.000047	
49500.0	124.2	-63.1	206.0	564.7	285.2	49.8	1.000046	
50000.0	121.2	-63.1	201.1	564.6	280.3	49.4	1.000045	
50500.0	118.3	-63.6	196.6	564.9	278.7	52.4	1.000044	
51000.0	115.4	-63.4	191.7	564.2	277.4	55.3	1.000043	
51500.0	112.6	-62.7	186.3	565.2	278.9	58.3	1.000041	
52000.0	109.9	-61.9	181.2	566.2	280.3	61.3	1.000040	
52500.0	107.2	-61.2	176.2	567.4			1.000039	
53000.0	104.6	-61.6	172.5	568.6			1.000038	
53500.0	102.1	-62.0	168.4	566.2			1.000037	

STATION ALTITUDE 3497.30 FEET MSL
<4 APP. 79 1530 HRS MST
ASCENSION NO. 73

WRF SIGNIFICANT LEVEL DATA
1140000070
S. N. R

GEODETIC COORDINATES
32°48.34' LAT DEG
106°42.307' LON DEG

GEOPOTENTIAL ALTITUDE DECAETERS	WIND DATA		TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
	DIRECTION DEG (TR.)	SPEED MPS		
1630*	9999.**	9999.**	-9999.**	99

GEOPOTENTIAL ALTITUDE DECAETERS	WIND DATA		TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
	DIRECTION DEG (TR.)	SPEED MPS		
1630*	9999.**	9999.**	-9999.**	99

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL
 24 APR. 79 1530 HRS MST
 ASCENSION NO. 73

MANDATORY LEVELS
 1140060073
 S M R

GEODETIC COORDINATES
 32.46034 LAT DEG
 106.42307 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES	AIR DEWPONT CENTIGRADE	REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KNOTS
850.0	4764.	25.4	-10	16	275.5	19.9
600.0	6492.	20.2	-4.1	19	270.6	26.4
5296.	5296.	14.8	-9.2	20	264.3	16.2
750.0	10192.	9.3	-11.9	21	254.0	15.0
650.0	12185.	3.0	-13.9	26	249.1	16.5
600.0	14286.	-2.0	-17.3	30	249.2	20.3
550.0	16545.	-4.8	-23.1	22	252.9	26.9
500.0	18986.	-10.0	-26.2	22	267.3	31.4
450.0	21617.	-16.6	-39.8	26	278.2	45.0
400.0	24490.	-22.8	-50.5	42	274.1	40.5
350.0	27546.	-31.3	-50.8	47	267.9	48.1
300.0	31150.	-40.9	-50.1	36	289.0	58.2
250.0	35136.	-51.3	-51.3	29	295.3	64.5
200.0	39804.	-59.8	-59.8	30	303.0	104.7
175.0	42500.	-64.1	-64.1	30	300.2	110.8
150.0	45597.	-64.7	-64.7	30	301.7	72.8
125.0	49235.	-63.4	-63.4	28	286.0	50.1
100.0	53755.	-61.7	-61.7			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
 24 APR. 79 1530 HRS MST
 ASCENSION 13. 73

VAR. MANDATORY LEVELS
 1449000075
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TRI)	WIND DATA		E-4 NPS	DEW PT DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
		SPEED MPH	DIR N-S WPS				
1030.	9999.**	9999.**	-9999.**	-9999.**	99	-61.7	1.000+2
1501.	267.	20.	-7.	60.	99	-63.4	1.250+2
1590.	302.	37.	-20.	52.	99	-64.7	1.500+2
1296.	300.	57.	-29.	42.	99	-64.1	1.750+2
1413.	304.	54.	-30.	45.	99	-59.8	2.000+2
1071.	296.	50.	-15.	32.	99	-51.3	2.500+2
950.	290.	30.	-10.	20.	92	-40.9	3.000+2
843.	288.	20.	-5.	24.	96	-31.3	3.500+2
746.	274.	24.	-2.	24.	96	-22.8	4.000+2
659.	275.	25.	-5.	14.	14	-16.6	4.500+2
579.	268.	10.	4.	16.	16	-10.0	5.000+2
504.	253.	14.	4.	12.	16	-4.8	5.500+2
436.	249.	12.	4.	11.	15	-2.0	6.000+2
371.	249.	6.	5.	6.	17	3.0	6.500+2
311.	255.	5.	2.	7.	21	9.3	7.000+2
253.	254.	9.	1.	9.	23	14.8	7.500+2
198.	271.	14.	-6.	14.	24	20.2	8.000+2
145.	276.	10.	-1.	10.	23	25.4	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING PAW AZIMUTH AND ELEVATION ANGLES.